



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010
Foundation Best Management Practices for Urban Water Efficiency

Agency: **City of Patterson**
Retail

District Name: **City of Patterson**

CUWCC Unit #: **73**

Primary Contact **Mike Willett**

Telephone **(209) 895-8060**

Email: **MWillett@ci.patterson.ca.us**

Compliance Option Chosen By Reporting Agency:
(Traditional, Flex Track or GPCD)

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Foundational BMPs

BMP 1.1 Operational Practices

		2009	2010	Conservation Coordinator provided with necessary resources to implement BMPs?
1. Conservation Coordinator provided with necessary resources to implement BMPs?	Name	Monica Sandoval	Monica Sandoval	
	Title	Conservation Coordinator	Conservation Coordinator	
	Email	MSandoval@ci.patterson.ca.us	MSandoval@ci.patterson.ca.us	
		On Track	On Track	
2. Water waste prevention documentation				
	Descriptive File	Sections 13.24.240, and	Sections 13.24.240, and 13.24.380	On Track if any one of the 6 ordinance actions done, plus documentation or links provided
	Descriptive File 2010	http://codepublishing.com/ca/patterson/		
	URL			
	URL 2010		http://codepublishing.com/ca/patterson/	
	Describe Ordinance Terms	Sections 13.24.240, and 13.24.380		
	Describe Ordinance Terms 2010		Sections 13.24.240, and 13.24.380	
		On Track	On Track	



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BMP 1.2 Water Loss Control

	2009	
Complete a prescreening Audit	no	Exempt
Metered Sales	0	
Verifiable Other Uses	0	
Total Supply	0	
(Metered Sales + System uses)/ Total Supply >0.89	0.00	Exempt
If ratio is less than 0.9, complete a full scale Audit in 2009?	No	Exempt
Verify Data with Records on File?	No	Exempt
Operate a system Leak Detection Program?	No	Exempt

On Track if Yes

On Track if ≥ 0.89 , Not on Track if No

On Track if Yes

On Track if Yes

On Track if Yes

	2009	
Compile Standard Water Audit using AWWA Software?	No	Exempt
AWWA file provided to CUWCC?	No	Exempt
AWWA Water Audit Validity Score?	0	
Completed Training in AWWA Audit Method?	No	
Completed Training in Component Analysis Process?	No	
Complete Component Analysis?	0	
Repaired all leaks and breaks to the extent cost effective?	Yes	On Track
Locate and repair unreported leaks to the extent cost effective.	Yes	On Track
Maintain a record-keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair.		
Provided 7 types of Water Loss Control Info		
Leaks Repaired	0	
Value Real Losses	\$ -	
Value Apparent Losses	\$ -	
Miles Surveyed	0	
Press Reduction	0	
Cost of Interventions	\$ -	
Water Saved	0	

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No
Info only until 2012

Info only until 2012

Info only until 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

Info only until 2012

	2010	
Compile Standard Water Audit using AWWA Software?	No	Exempt
AWWA file provided to CUWCC?	No	Exempt
AWWA Water Audit Validity Score?	0	
Completed Training in AWWA Audit Method?	no	
Completed Training in Component Analysis Process?	No	
Complete Component Analysis?	No	
Repaired all leaks and breaks to the extent cost effective?	Yes	On Track
Locate and repair unreported leaks to the extent cost effective.	Yes	On Track
Maintain a record-keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair.		
Provided 7 types of Water Loss Control Info		
Leaks Repaired	0	
Value Real Losses	\$ -	
Value Apparent Losses	\$ -	
Miles Surveyed	0	
Press Reduction	Off	
Cost of Interventions	\$ -	
Water Saved	0	

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

Info only until 2012

Info only until 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

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1.3 METERING WITH COMMODITY RATES FOR ALL NEW CONNECTIONS AND RETROFIT OF EXISTING CONNECTIONS

Exemption or 'At least as Effective As' accepted by CUWCC

Numbered Unmetered Accounts

Metered Accounts billed by volume of use

Number of CII accounts with Mixed Use meters

Conducted a feasibility study to assess merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

Feasibility Study provided to CUWCC?

Completed a written plan, policy or program to test, repair and replace meters

2009
Yes
Yes
0
No
No
No
No

Exempt

On Track

2010
Yes
Yes
0
No
No
No
No

Exempt

On Track

If signed MOU prior to 31 Dec 1997, On Track if all connections metered; If signed after 31 Dec 1997, complete meter installations by 1 July 2012 or within 6 yrs of signing and 20% biannual reduction of unmetered connections.

On Track if no unmetered accounts

Volumetric billing required for all connections on same schedule as metering

Info only until 2012

Info only until 2012

Info only until 2012

Info only until 2012



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Agency: **City of Patterson** District Name: **City of Patterson** CUWCC Unit #: **73**
 Retail Coverage Report Date: **June 9, 2011**
 Primary Contact: **Mike Willett** Email: **MWillett@ci.patterson.ca.us**

1.4 Retail Conservation Pricing

Metered Water Rate Structure

Date 2009 data received July 7, 2011

Date 2010 data received July 7, 2011

On Track if: Increasing Block, Uniform,
Allocation, Standby Service; Not on Track if
otherwise

Customer Class	2009 Rate Type	Conserving Rate?	Customer Class	2010 Rate Type	Conserving Rate?
Single-Family	Increasing Block	Yes	Single-Family	Increasing Block	Yes
Multi-Family	Increasing Block	Yes	Multi-Family	Increasing Block	Yes
Commercial	Increasing Block	Yes	Commercial	Increasing Block	Yes
On Track			On Track		

Year Volumetric Rates began for Agencies with some Unmetered Accounts

Info only

Agencies with Partially Metered Service Areas: If signed MOU prior to 31 Dec. 1997, implementation starts no later than 1 July 2010. If signed MOU after 31 Dec. 1997, implementation starts no later than 1 July 2013, or within seven years of signing the MOU,

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District Name: **City of Patterson**

CUWCC Unit #: **73**
Coverage Report Date: **June 9, 2011**



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Adequacy of Volumetric Rates) for Agencies with No Unmetered Accounts

Customer Class	2009 Rate Type	2009 Volumetric Revenues \$1000s	2010 Rate Type	2010 Volumetric Revenues \$1000s
Single-Family Multi-Family Commercial	Increasing Block	\$ 1,446	Single-Family Multi-Family Commercial	\$ 1,338
	Increasing Block	\$ 7		\$ 5
	Increasing Block	\$ 963		\$ 902
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
Total Revenue Commodity Charges (V):		\$ 2,416	\$ 2,246	
Total Revenue Fixed Charges (M):		\$ 661	\$ 691	
Calculate: V / (V + M):		79%	76%	
Info only until 2012			Info only until 2012	

Agency Choices for rates:

A) Agencies signing MOU prior to 13 June2007, implementation starts 1 July2007: On Track if $(V / (V + M)) \geq 70\% \times .8 = 56\%$ for 2009 and $70\% \times 0.90 = 63\%$ for 2010; Not on track if $(V / (V + M)) < 70\%$;

B) Use Canadian model. Agencies signing MOU after 13 June2007, implementation starts July 1 of year following signing.

Canadian Water & Wastewater Rate Design Model Used and Provided to CUWCC
If Canadian Model is used, was 1 year or 3 year period applied?

No

No

Wastewater Rates

Does Agency Provide Sewer Service?

2009
Yes

If 'No', then wastewater rate info not required.

2010
Yes

Customer Class	2009 Rate Type	Conserving Rate?	Customer Class	2010 Rate Type	Conserving Rate?
		No			No
		No			No
		No			No
		No			No
		No			No
		No			No
		No			No
Exempt			Exempt		

irrigation revenue not separated from commercial revenue.
r charges are based on water meter readings, \$1.62 per 100 c.f. after 1,000 c.f., with \$28.47 base rate.

On Track if: 'Increasing Block', 'Uniform', 'based on long term marginal cost' or 'next unit of capacity'



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BMP 2. EDUCATION PROGRAMS

BMP 2.1 Public Outreach Actions Implemented and Reported to CUWCC

Does a wholesale agency implement Public Outreach Programs for this utility's benefit?
Names of Wholesale Agencies

1) Contacts with the public (minimum = 4 times per year)

2) Water supplier contacts with media (minimum = 4 times per year, i.e., at least quarterly).

3) An actively maintained website that is updated regularly (minimum = 4 times per year, i.e., at least quarterly).

4) Description of materials used to meet minimum requirement.

5) Annual budget for public outreach program.

6) Description of all other outreach programs

2009	2010
No	No
0	0
0	0
No	No
Conservation brochures/mailers sent out periodically in billings.	Conservation brochures/mailers sent out periodically in billings.
\$ -	\$ -
The City provides water conservation information at City sponsored events, such as the Apricot Festival, Earth Day, and Fall Fest	The City provides water conservation information at City sponsored events, such as the Apricot Festival, Earth Day, and Fall Fest
Exempt	Exempt

Yes/No

All 6 action types implemented and reported to CUWCC to be 'On Track')



CUWCC Unit #: 73

Date:

Email MWillett@ci.patterson.ca.us

n/a

Initial 10 year period completed:

No

If "Yes" , 50% credit for past BMP 9 Impleme

No

SF historic

Completed Accounts SF Surveys: 0 MF Surveys:

0

0

2010 Single Family Accounts	2010 SF Target	2010 Multi Family Units	2010 MF Targets
5,761		27	
	86		0
			Exempt

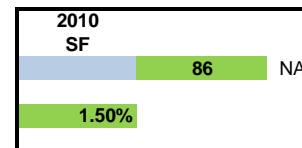
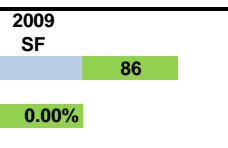
"On Track" if annual number of surveys/assistance $\geq 1.5\%$ of SF accounts and MF units

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BMP 3 C2) Landscape Water Surveys

Number of SF account landscape
water surveys completed
Surveys as Percent of SF Accounts



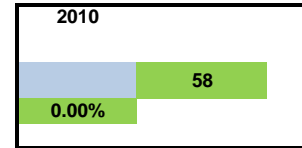
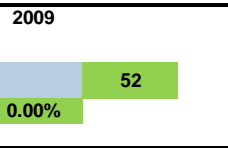
NA

"On Track" if annual number of
landscape surveys >= 1.5% of
SF accounts

BMP 3 C3) High Efficiency Clothes Washers

Number Financial Incentives Provided
to Customers

Percent



"On Track" if number of
incentives for HECW
(WF,=5.0) => 0.9% SF
accounts in 2009 and 1.0 % in
2010

BMP 3 C4) Water Sense Specification Toilets

Retrofit 'On Resale' Ordinance exists

No

75% Market Penetration Achieved

If 'Yes' is documentation provided?

No

2010

No

No

Ordinance must require
replacement of toilets => 3.5
gpf when property is sold
On Track if ordinance exists

On Track if 75% penetration achieved and
documentation provided

Number WSS Toilets Installed
Ave Resale Rate X Toilets /residence

SF



MF Units



SF



MF Units



**On Track If number of toilets installed
=> average resale rate X number toilets
per residence (from Base Year Data)**

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BMP 3 C5) WSS for New Residential Development

	2009	2009	2010 SF	2010MF
Does an Ordinance Exists Requiring WSS Fixtures and Appliances in new SF and MF	No	No	No	No
If 'Yes' is documentation provided?	No	No	No	No
Incentives				
Number of new SF & MF units built				

On Track if ordinance exists requiring
WSS in new residential units and
documentation is provided

If no ordinance, to be On Track, provide
incentives and describe, Including:

Exempt

Exempt



CUWCC BMP COVERAGE REPORT

Traditional BMP 4 - Comercial Industrial Institutional

Agency: **City of Patterson** District Name: **City of Patterson** CUWCC Unit #: **73**
 Primary Contact: Mike Willett Email: MWillett@ci.patterson.ca.us Report Date:
 Compliance Option Chosen By Reporting Agency: n/a
 Date Agency Signed MOU: 12/8/1997 Initial 10 year period completed: **N** If "Yes" , 50% credit for past BMP 9 Implementation? **N**
 Water Savings Credit (AF) **0.0**

CII Baseline Water Use (AF): **245.0**

Target CII Water Use Reduction (AF) **24.5**
 2 year Target (AF) **1.2**

Target Reduction is 10% of
 Baseline CII water use over 10
 years.

Water Efficiency Measures

	2009 Quantity Installed	2009 Water Savings AF	2010 Quantity Installed	2010 Water Savings AF	Type of Program	Other type of Program	
1 High Efficiency Toilets (1.2 GPF or less)	0	0.0	0	0.0	Incentive	n/a	Guideline: 'On Track' if estimated savings as percent of baseline: 0.5% by the end of first reporting per 2.4% by end of yr 4, 6.4% by end of year 8
2 High Efficiency Urinals (0.5 GPF or less)	0	0.0	0	0.0	Incentive		
3 Ultra Low Flow Urinals	0	0.0	0	0.0	Incentive	Ultra Low Flow Toilet Tanks	
4 Zero Consumption Urinals	0	0.0	0	0.0	Incentive	Waterless urinals	
5 Commercial High Efficiency Single Load Clothes Washers	0	0.0	0	0.0	Incentive		
6 Cooling Tower Conductivity Controllers	0	0.0	0	0.0	Incentive		9 % by end of yr 10
7 Cooling Tower pH Controllers	0	0.0	0	0.0			CII List of Efficiency Measures from MOU Compliance Policies Tier 3, page 5, dated 10-06-09
8 Connectionless Food Steamers	0	0.0	0	0.0			
9 Medical Equipment Steam Sterilizers	0	0.0	0	0.0			
10 Water Efficient Ice Machines	0	0.0	0	0.0			
11 Pressurized Water Brooms	0	0.0	0	0.0	Incentive		
12 Dry Vacuum Pumps	0	0.0	0	0.0			
Total Water Savings		0.0		0.0	Exempt		



CUWCC BMP COVERAGE REPORT

Traditional BMP 5 - Landscape

Agency: **City of Patterson** District Name: **City of Patterson** CUWCC Unit #: **73**
 Primary Contact: Mike Willett Email: MWillett@ci.patterson.ca.us Report Date:
 Compliance Option Chosen By Reporting Agency: n/a
 Date Agency Signed MOU: 12/8/1997 Initial 10 year period completed: **N** If "Yes", 50% credit for past BMP 9 Implementation?
 50% of Completed Accounts: 0

Required Documentation

	2009	2010	
Number of dedicated irrigation meter accounts	121	121	
Number of dedicated irrigation meter accounts with water budgets.	0	0	
Percent of dedicated irrigation meters with water budgets	0.0%	0.0%	
Target Rate for Year 1	9%	18%	Exempt
Aggregate water use for dedicated non-recreational landscape accounts with budgets			
Aggregate acreage assigned water budgets and average ET for dedicated non-recreational landscape accounts with budgets.	2009 Acres 2009 Average ET	2010 Acres 2010 Average ET	
	2009 Accounts $\geq 20\%$ over-budget	2010 Accounts $\geq 20\%$ over-budget	
	Number of Accounts	Number of Accounts	
	Offered Technical Assistance	Offered Technical Assistance	
	Accepting Technical Assistance	Accepting Technical Assistance	
	2009 Acres 2009 Average ET	2010 Acres 2010 Average ET	
Aggregate acreage of recreational areas assigned water budgets and average ET for dedicated recreational landscape accounts with budgets.			

ETo-based water use budgets developed for 90% of CII accounts with dedicated irrigation meters at an average rate of 9% per year over 10 years

Offer site-specific technical assistance annually to all accounts that are 20% over budget within six years of the date implementation was to commence.

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CII Accounts without Meters or with Mixed-Use Meters

	2009	2010
Number of mixed use and un-metered accounts.		

Incentive Type	2009 Incentives and Responses		
	Incentive Value \$	Number offered to Customers	Number accepted by Customers

2010 Incentives and Responses		
Incentive Value \$	Number offered to Customers	Number accepted by Customers

Agency will implement and maintain a customer incentive program(s) for irrigation equipment retrofits.

	2009 Surveys	
	Number offered.	Number accepted
Landscape Irrigation Surveys		

2010 Surveys	
Number offered.	Number accepted

Complete irrigation water use surveys for not less than 15% of CII accounts with mixed-use meters and un-metered accounts within 10 years of the date implementation is to commence. (Note: CII surveys that include both indoor and outdoor components can be credited against coverage requirements for both the Landscape and CII BMPs.)

Agregate acreage for Mixed Use and un-metered accounts

Percent Surveys Complete

On Track if the percent of CII accounts with mixed-use meters receiving a landscape water use survey equals or exceeds the following: 1.5% by the end of the first reporting period (year two) following the date implementation is to commence; 3.6% by the end of year four; 6.3% by the end of year six; 9.6% by the end

Estimated annual water savings by customers receiving surveys and implementing recommendations.

Exempt